

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

**City of Santa Rosa (Laguna Subregional)
Wastewater Treatment Plant
Site #1403**

Site Address:

4300 Llano Road
Santa Rosa

Mailing Address:

4300 Llano Road
Santa Rosa
(707) 543-3350

**Responsible Official - Miles Ferris, Dir. of Utilities
Facility Contact - Scott Stinebaugh, Manager**

Type of Facility:	Publicly Owned Treatment Works
Primary SIC:	4952
Product:	Municipal Wastewater Treatment Facility

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Ellen J. Garvey, Air Pollution Control Officer

Date

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I. STANDARD CONDITIONS

Administrative Requirements

The permit holder shall comply with all applicable requirements in BAAQMD Regulation 1 - General Provisions and Definitions (11/3/93); SIP Regulation 1 - General Provisions and Definitions (3/17/82); BAAQMD Regulation 2, Rule 1 - Permits, General Requirements (6/7/95); SIP Regulation 2, Rule 1 - Permits, General Requirements (2/1/95); BAAQMD Regulation 2, Rule 2 - Permits, New Source Review (6/7/95); SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration (12/1/82); and BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking (6/15/94).

Conditions to Implement Regulation 2, Rule 6, Major Facility Review

This Major Facility Review Permit expires on *[ENTER DATE 5 YEARS AFTER ISSUANCE]*. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than *[6 MONTHS PRIOR TO EXPIRATION]* and no earlier than *[ONE YEAR PRIOR TO EXPIRATION]*. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after [DAY PRIOR TO EXPIRATION].** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)

The permit holder shall comply with all conditions of this permit. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)

In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)

This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)

The permit holder shall supply any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit within 30 days. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)

Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies

I. Standard Conditions (continued)

of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)

The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

Minor Permit Modification Procedures

Notwithstanding the provisions set forth in Regulation 2, Rule 6, Major Facility Review, Section 411, Reports to EPA and Public Petitions for Major Facility Review Permits; Section 412, Public Participation, Major Facility Review Permit Issuance; and Section 414, Minor Permit Modification Procedures:

1. Advance public notice and EPA review shall not be required for any proposed minor permit modification. Once per calendar quarter, the District shall publish a list that includes any minor permit modification issued during the previous quarter.
2. For any minor permit modification involving an emission increase from any source or group of sources equal to or greater than: 5 tons per year of a regulated air pollutant; 2 tons per year of any single hazardous air pollutant; and 5 tons per year of any combination of hazardous air pollutants, the District shall provide to EPA a copy of each relevant application or a summary of the application, and a copy of each final permit revision.
3. For any minor permit modification involving an emission increase from any source or group of sources of less than: 5 tons per year of a regulated air pollutant, 2 tons per year of any single hazardous air pollutant; and 5 tons per year of any combination of hazardous air pollutants, the District shall not submit a copy of the relevant application, a summary of the application, or final permit revision to EPA. EPA shall not object to any permit modification involving an emission increase below the levels described herein. Such permit modifications shall be incorporated as attachments to this permit during the remaining term of the permit, and incorporated into the body of the permit as part of the five-year permit renewal.

Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

Records

I. Standard Conditions (continued)

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

Monitoring Reports

All required monitoring reports must be submitted to the District at least once every six months. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. (Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. (Regulation 2-6-409.9; MOP Volume II, Part 3, §4.15)

Emergency Provisions

The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)

The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)

Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. (MOP Volume II, Part 3, §4.8)

Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

II. EQUIPMENT LIST

A. Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

Table II-A

S-#	Description	Make or Type	Model	Capacity
S-3	Compost Bay			36,500 tons
S-4	Stockpiles			36,500 tons
S-5	Screens			36,500 tons
S-17	Irrigation Ponds			60 MM gal/day
S-18	Irrigation Ponds			37 MM gal/day
S-28	Hot water Boilers (2)	Cleaver Brooks	CB-125	8.4 MM Btu/hr
S-29	Internal Combustion lean burn engine #1	Waukesha	L7042G0	750 h.p.
S-30	Internal Combustion lean burn engine #2	Waukesha	L7042G0	750 h.p.
S-31	Internal Combustion lean burn engine #3	Waukesha	L7042G0	750 h.p.
S-100	Municipal Wastewater Treatment Plant	Custom		20 MM gal/day
S-110	Preliminary Treatment	Custom		20 MM gal/day
S-120	Primary Treatment	Custom		20 MM gal/day
S-130	Flow Equalization	Custom		20 MM gal/day
S-140	Secondary Treatment	Custom		20 MM gal/day
S-150	Secondary Clarifiers	Custom		20 MM gal/day
S-160	Tertiary Treatment	Custom		20 MM gal/day
S-170	Disinfection	Custom		20 MM gal/day
S-180	Sludge Handling Processes	Custom		20 MM gal/day
S-190	Anaerobic Digestors	Custom		20 MM gal/day

II. Equipment List (continued)

B. Abatement Device List

Table II-B

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-1	Biofilter 50,000 sq. ft	S-3,4,5	7-300		90%

III. GENERALLY APPLICABLE EMISSION REQUIREMENTS

The permit holder shall comply with the applicable requirements specified in the BAAQMD and SIP Rules and Regulations cited below. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Part IV, Applicable Requirements, of this permit. The dates in parenthesis in the Title column are the dates of adoption or most recent amendment or for SIP requirements, the most recent date of EPA approval.

Table III

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Sources/Operations Covered
BAAQMD Regulation 1	General Provisions and Definitions (11/3/93)	Y ¹	all
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	Y	facility
BAAQMD Regulation 5	Open Burning (11/2/94)	Y ¹	facility
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	N ¹	all, except temporary sandblasting, open fires, and operations subject to BAAQMD §6-303, 304, or 306
6-303	Ringelmann Number 2 Limitation	Y	sources listed in subsections
6-305	Visible Particles	Y	all, except temporary sandblasting and open fires

(continued)

III. Generally Applicable Emission Requirements (continued)

Table III (continued)

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Sources/Operations Covered
6-310	Particulate Weight Limitation	Y	all, except temporary sandblasting and open fires
6-401	Appearance of Emissions	Y	all
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N	all
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y	solvent cleaning operations, except operations subject to Reg. 8-2 or 8-4 which meet minimum abatement requirements
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y ¹	application of architectural coating
BAAQMD Regulation 8, Rule 4	Organic Compounds-General Solvent and Surface Coating Operations (12/20/95)	Y	Limitation on Surface Coatings and Solvents
BAAQMD Regulation 8, Rule 16	Organic Compounds-Solvent Cleaning Operation (12/20/95)	Y	Solvent Cleaner Operating Requirements
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	Y ¹	application of or specifications for aerosol products
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N	application or specification of adhesive or sealant products

(continued)

III. Generally Applicable Emission Requirements (continued)

BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants-Sulfur Dioxide (3/15/95)	N	SO2 Emission Limitation on Ground Level Concentrations
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants-Hydrogen Sulfide (3/17/82)	N	H2S Emission Limitation on Ground Level Concentrations
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y	asbestos surfacing/coating, installation, demolition, disposal
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y ¹	non-permanent abrasive blasting operations

¹ There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. APPLICABLE REQUIREMENTS

The permit holder shall operate in compliance with all requirements specified in the sections of the applicable rules and regulations and permit conditions cited below. The text of all permit conditions cited is included in Part V, Permit Conditions, of this permit. All other text may be found in the regulations themselves. The dates in parenthesis in the Regulation Title column are the dates of adoption or most recent amendment or for SIP requirements, the most recent date of EPA approval.

Table IV-A

S-3 Compost bay, S-4 Stockpiles, S-5 Screens

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Future Effective Date
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N	
7-303	Limit on Odorous Compounds	N	
BAAQMD Condition #12848			
Part 1	Ringlemann limit (basis: 6-300)	N	
Part 3	Throughput limit (basis: cumulative increase)	Y	
Part 4	Minimize Particulate Emissions (basis: 6-300)	N	
Part 6	Odor Limitation (basis: 7-100)	N	
Part 7	Daily Record Keeping of usage (basis: cumulative increase)	Y	

IV. Applicable Requirements (continued)

Table IV-B

S-17, S-18 Irrigation Ponds , S-110 Preliminary Treatment, S-120 Primary Treatment, S-140 Secondary Treatment, S-150 Secondary Clarifiers, S-160 Tertiary Treatment, S-170 Disinfection, S-180 Sludge Handling, S-190 Anaerobic Digestors

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)	Y	
8-2-301	Miscellaneous Operations	Y	

Table IV-C

S-28 Two Hot Water Boilers burning natural and digester gas

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 7	Inorganic Gaseous Pollutants-NOx and CO from Industrial, and Commercial Boilers, Steam Generators, and Process Heaters(9/15/93)		
9-7-111	Limited Exemption, Low Fuel Usage	N	
9-7-304	Low Fuel Usage Requirements	N	
9-7-304.1	Oxygen concentration limit	N	
9-7-304.2	Tuning requirement	N	
9-7-304.3	Emission limits	N	
BAAQMD Condition #1541	Odor Abatement (basis: Reg. 7-102)	N	

IV. Applicable Requirements (continued)

Table IV-D

S-29, S-30, S-31 Internal Combustion Engines at 750 h.p.

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 8	NOx and CO requirements for Stationary Internal Combustion Engines (1/20/93)	N	
9-8-301	Emission Limits - Fossil Derived Fuel Gas	N	1-1-97
9-8-301.2	NOx Emission Limit for Lean Burn Engines	N	1-1-97
9-8-301.3	CO Emission Limit for Lean Burn Engines	N	1-1-97
9-8-302	Emission Limits - Waste Derived Fuel Gas	N	1-1-97
9-8-302.1	NOx Emission Limit for Lean Burn Engines	N	1-1-97
9-8-302.3	CO Emission Limit for Lean Burn Engines	N	1-1-97
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)	Y	
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #2612	Operating Limit (basis: cumulative increase)	N	

Table IV-E

S-100 Wastewater Treatment Plant, S-130 Flow Equalization

Applicable Requirement	Regulation Title or Description of Requirement	SIP-approved/ FE (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (6/15/94)	Y	
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #947, #784	Odor Abatement (basis: Reg. 7-1-102)	N	

V. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

A. Source Specific Permit Conditions

***Condition #784**

For S-130 Flow Equalization

1. If the District receives more than five confirmed complaints in a week, the City of Santa Rosa WWTP shall take immediate action to abate the odor (Basis: BAAQMD Reg. 7-102).

***Condition #947**

For S-100 Wastewater Treatment Plant

1. If the District receives more than five confirmed complaints in a week, the City of Santa Rosa WWTP shall take immediate action to abate the odor (Basis: BAAQMD Reg. 7-102).

***Condition #1541**

For S-28 Hot Water Boilers

1. If the District receives more than five confirmed complaints in a week, the City of Santa Rosa WWTP shall take immediate action to abate the odor (Basis: BAAQMD Reg. 7-102).

Condition #2612

For S-29,30,31 Internal Combustion Engines

1. Only one of the three engine is operated at any given time (Basis: cumulative Increase).

Condition #12848

For S-3 Composting Bay, S-4 Stockpiles, S-5 Screens, A-1 Biofilter

1. Visible particulate emissions from this source shall not exceed Ringlemann 0.5 or result in fallout on adjacent property in such quantities to cause a public nuisance per Regulation 1-301. (Basis: 6-301)

V. Permit Conditions (continued)

A. Source Specific Permit Conditions (continued)

Condition #12848

For S-3 Composting Bay, S-4 Stockpiles, S-5 Screens, A-1 Biofilter

- *2. The plant shall conduct a District approved source test on A-1 Biofilter within 60 days of start-up to ensure that this facility is in compliance with Regulation 7, Section 303 for the following compounds: (Basis: Reg. 7 include on Table IV A)
 - a. Dimethylsulfide (CH₃)₂S
 - b. Mercaptans, calculated as methylmercaptan CH₃SH
 - c. Ammonia NH₃The samples shall be collected as prescribed in the Manual of Procedures, Volume IV and submitted to the District.
- 3. Throughput of sludge and yard waste mixture shall not exceed 36,500 tons in any consecutive 12 month period. (Basis cumulative increase)
- 4. For the compost that is stockpiled, both in the curing pile and storage piles, water shall be added manually as needed to reduce particulates. (Basis: 6-300)
- *5. The stockpile of shredded screen yard waste (i.e., green tree trimmings, green leaves, brushes) shall be processed no later than 5 days from the time they are received to prevent wood decomposition and odors. (Basis: Reg. 7)
- *6. If the plant receives 2 or more Violation Notices from the District for "Public Nuisance" in any consecutive 12 month period, the owner/operator of this facility shall submit to the District within 30 days, an application to modify the Permit to Operate to include the following control measures as applicable or any other that the District deems necessary and appropriate. (Basis: Reg. 7)
 - a. Reduce holding time of yard waste from 5 days to 3 days.
 - b. Replace biofilter media with new material if it no longer is effective and decomposition has set in, or increase the biofilters thickness so that no odors are detected.

V. Permit Conditions (continued)

A. Source Specific Permit Conditions (continued)

Condition #12848

For S-3 Composting Bay, S-4 Stockpiles, S-5 Screens, A-1 Biofilter

7. In order to demonstrate compliance with the above conditions, the operator of sources S-3, S-4 and S-5 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of 24 months from the date that the record was made. (Basis: Cumulative Increase)
 - a. Daily throughput of sludge/yard waste material being processed, summarized on a monthly basis.
 - b. Cubic yards of stockpiled yard waste received in stockpiled area and removed for processing during a 5 day time period.
 - c. Daily hours of operation, summarized on a monthly basis.

VI. APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS

The following tables indicate the type of compliance monitoring required for each applicable emission limit. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VI-A

**S-17, S-18 Irrigation Ponds, S-29,S-30,S-31` I.C. Engines,
S-100 Wastewater Treatment Plant, S-110 Preliminary Treatment,
S-120 Primary Treatment, S-130 Flow Equalization, S-140 Secondary Treatment,
S-150 Secondary Clarifiers, S-160 Tertiary Treatment, S-170 Disinfection,
S-180 Sludge Handling, S-190 Anaerobic Digestors**

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		15 lb/day & 300 ppm total carbon on dry basis	N	N	N

Table VI-B

S-29, S-30, S-31 I.C. Engines

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	9-8-302.3	N	1-1-97	CO<2000 ppmv corrected to 15% oxygen, dry basis	N	N	N
NOx	9-8-302.1	N	1-1-97	NOx<140 ppmv corrected to 15% oxygen, dry basis	N	N	N
CO	9-8-301.3	N	1-1-97	CO<2000 ppmv corrected to 15% oxygen, dry basis	N	N	N
NOx	9-8-301.2	N	1-1-97	NOx<140 ppmv corrected to 15% oxygen, dry basis	N	N	N

VII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VI - Applicable Emission Limits & Compliance Monitoring Requirements.

Table VII

Applicable Requirement	Description of Requirement	Acceptable Test Methods	SIP-Approved
BAAQMD 7-303	Limit on Odorous Compounds	Manual of Procedures, Volume IV, ST-1, ST-8, ST-11, ST-16, ST-22, Sampling of Odorous Compounds	N
BAAQMD 8-2-301	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A.	N Y
BAAQMD 9-8-301.2	Fossil Derived Fuel Gas, NO _x Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling	N N N
BAAQMD 9-8-301.3	Fossil Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling	N N
BAAQMD 9-8-302.1	Waste Derived Fuel Gas NO _x Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling	N N N
BAAQMD 9-8-302.3	Waste Derived Fuel Gas CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling	N N

VIII. GLOSSARY

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date. Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid

Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

VIII. Glossary (continued)

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures.

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen.

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any on site contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

VIII. Glossary (continued)

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Ambient Air Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
Btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
MM	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year